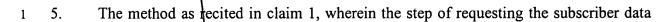
## **CLAIMS**

What is claimed is:

- 1 1. A method of managing subscriber data in a telecommunications system, comprising
- 2 the steps of:
- receiving one or more messages from a mobile station;
- requesting the subscriber data from a first database, the subscriber data containing
- 5 circuit switching data, packet switching data, or circuit switching data and packet switching
- 6 data;
- 7 receiving the subscriber data from the first database; and
- storing the subscriber data in the second database.
- 1 2. The method as recited in claim \( \frac{1}{4} \), wherein the first database is a home location
- 2 register.
- 1 3. The method as recited in claim 1, wherein the second database is a universal visitor
- 2 location register located in a new service area.
- 1 4. The method as recited in claim 1, further comprising the step of communicating one
- or more messages with one or more databases in response to the one or more messages from
- 3 the mobile station.



- 2 from the first database comprises the step of sending one or more messages to the first
- 3 database to request the subscriber data.
- 1 6. The method as redited in claim 4, wherein the step of communicating one or more
- 2 messages with one or more databases comprises:
- sending one or more messages to a third database; and
- 4 receiving one or more messages from the third database in response to the one or
- 5 more messages being sent to the third database.
- 7. The method as recited in claim 6, wherein the third database is a universal visitor
- 2 location register located in an old service area.
- 1 8. The method as recited in claim 6, wherein the third database is a SGSN located in an
- 2 old service area.
- 1 9. The method as recited in claim 6, wherein the third database is a VLR located in an
- 2 old service area.
- 1 10. The method as recited in claim 5, wherein the one or more messages being sent to the
- 2 first database to request the subscriber data is an update location signal.
- 1 11. The method as recited in claim 3, wherein the one or more messages received from
- the mobile station at the second database is a routing area update request signal.

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- 1 12. The method as recited in claim 6, wherein the one or more messages being sent to the
- 2 third database is a context request signal.
- 1 13. The method as recited in claim 6, wherein the one or more messages received by the
- 2 second database is a context response signal.
- 1 14. The method as recited in claim 6, wherein the one or more messages being sent to the
- 2 third database is a send identification signal.
- 1 15. The method as recited in claim 6, wherein the one or more messages received by the
- 2 second database is a send identification acknowledgment signal.
- 1 16. The method as recited in claim 1, further comprising the step of communicating one
- or more messages between the first database and a third database in response to the step of
- 3 requesting the subscriber data from the first database.
- 1 17. The method as recited in claim 16, wherein the step of communicating one or more
- 2 messages between the first database and the third database comprises the steps of:
- sending one or more messages from the first database to the third database; and
- sending one or more messages from the third database to the first database in
- 5 response to the one or more messages sent by the first database.
- 1 18. The method as recited in claim 17, wherein the one or more messages being sent to
- the third database is a cancel location signal.

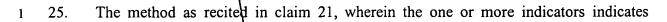


- 1 19. The method as recited in claim 17, wherein the one or more messages being to the
- 2 first database is a cancel location acknowledgment signal.
- 1 20. The method as recited in claim 1, wherein the mobile station is roaming from an old
- 2 service area to a new service area.



1	21.	A method of r	estoring subscriber	data of a	mobile statio	n in one or	more network
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- devices, comprising the steps of:
- receiving a request to restore the subscriber data from the one or more network
- devices, the subscriber data containing circuit switching data, packet switching data, or
- 5 circuit switching data and packet switching data;
- 6 setting one or more indicators in a first database; and
- 7 coordinating with at least a second database to make the subscriber data consistent.
- 1 22. The method as recited in claim 21, further comprising the steps of:
- determining whether the subscriber data is stored in the first database; and
- receiving the subscriber data from the second database when the subscriber data is not
- 4 stored in the first database.
- 1 23. The method as recited in claim 21, wherein the one or more indicators indicates
- whether the first database record of location area identity is confirmed by radio contact.
- 1 24. The method as recited in claim 21\ wherein the one or more indicators indicates
- whether the subscriber data stored in the first\database is consistent with the subscriber data
- 3 stored in the second database.



- whether the second database record of the first database number of the mobile station is
- confirmed by radio contact.
- 1 26. The method as recited in claim 21, wherein the first database is a universal visitor
- 2 location register.
- 1 27. The method as recited in claim 21, wherein the second database is a home location
- 2 register.

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## Ericsson Docket No. P-12651 GWS Docket No. 064645-1044

- 1 28. A telecommunications system comprising:
- a first database containing subscriber data of one or more mobile subscribers, the
- 3 subscriber data containing circuit switching data, packet switching data, or circuit switching
- 4 data and packet switching data;
- a second database communicably linked to the first database, wherein the second
- database is for receiving the subscriber data contained in the first database and storing the
- subscriber data for subscriber's roaming within a service area covered by the second database;
- 8 and
- one or more network devices connected to the second database, the one or more
- network devices are for providing one or more types of telecommunications services to the
- one or more mobile subscribers based upon the subscriber data.
- 1 29. The system as recited in claim 28, further comprising:
- one or more service areas; and
- wherein each service area includes one or more first databases, the second database
- 4 and the one or more network devices.
- 1 30. The system as recited in claim 2/8, wherein the first database is a home location
- 2 register.
- 1 31. The system as recited in claim 28, wherein the second database is a universal visitor
- 2 location register.



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- 1 32. The system as recited in claim 28, wherein the one or more network devices
- 2 comprises: one or more mobile switching centers for providing circuit switching services to
- 3 the one or more mobile subscribers.
- 1 33. The system as recited in claim 28, wherein the one or more network devices
- 2 comprises: one or more signaling nodes for providing packet switching services to the one or
- 3 more mobile subscribers.

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## Ericsson Docket No. P-12651 GWS Docket No. 064645-1044

- 1 34. A computer program for managing subscriber data in a telecommunications system
- embodied on a computer readable medium, the computer program comprising:
- a code segment for receiving one or more messages from a mobile station;
- a code segment for requesting the subscriber data from a first database, the subscriber
- data containing circuit switching data, packet switching data, or circuit switching data and
- 6 packet switching data;
- a code segment for receiving the subscriber data from the first database; and
- a code segment for storing the subscriber data in the second database.
- 1 35. The computer program as recited in claim 34, further comprising the step of a code
- segment for communicating one or more messages with one or more databases in response to
- the one or more messages from the mobile station.
- 1 36. The computer program as recited in claim 34, wherein the code segment for
- 2 requesting the subscriber data from the first database comprises the code segment for sending
- one or more messages to the first database to request the subscriber data.
- 1 37. The computer program as recited in claim 34, wherein the code segment for
- 2 communicating one or more messages with one or more databases comprises:
- a code segment for sending one or more messages to a third database; and
- a code segment for receiving one or more messages in response to the one or more
- 5 messages being sent to the third database.

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The computer program as recited in claim 34 further comprising a code segment for

communicating one of more messages between the first database and a third database in

response to the step of requesting the subscriber data from the first database.



- 1 39. A computer program for restoring subscriber data of a mobile station in one or more
- 2 network devices comprising:
- a code segment for receiving a request to restore the subscriber data from the one or
- 4 more network devices, the subscriber data containing circuit switching data, packet switching
- 5 data, or circuit switching data and packet switching data;
- a code segment for setting one or more indicators in a first database; and
- a code segment for coordinating with at least a second database to make the
- 8 subscriber data consistent.
- 1 40. The computer program as recited in claim 39, further comprising:
- a code segment for determining whether the subscriber data is stored in the first
- database; and
- a code segment for receiving the subscriber data from the second database when the
- 5 subscriber data is not stored in the first database.
- 1 41. The computer program as recited in claim 39, wherein the first database is a universal
- 2 visitor location register.
- 1 42. The computer program as recited in claim 39, wherein the second database is a home
- 2 location register.

